

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S339	390	726/2.ccls.	USPAT	OR	OFF	2007/06/20 09:14
S340	408	726/3.ccls.	USPAT	OR	OFF	2007/06/20 09:14
S341	429	726/4.ccls.	USPAT	OR	OFF	2007/06/20 09:14
S342	358	726/5.ccls.	USPAT	OR	OFF	2007/06/20 09:14
S343	206	726/6.ccls.	USPAT	OR	OFF	2007/06/20 09:14
S344	156	726/7.ccls.	USPAT	OR	OFF	2007/06/20 09:15
S345	159	726/17.ccls.	USPAT	OR	OFF	2007/06/20 09:16
S346	267	713/166.ccls.	USPAT	OR	OFF	2007/06/20 09:20
S347	583	713/182.ccls.	USPAT	OR	OFF	2007/06/20 09:21
S348	335	711/164.ccls.	USPAT	OR	OFF	2007/06/20 09:27
S349	873	(key or code or password or PIN or secret) near4 (level near3 access\$4)	USPAT	OR	ON	2007/06/20 09:29
S350	2047	(key or code or password or PIN or secret) near4 (level near3 access\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:32
S351	796	(level near3 access\$4) same (web adj3 site or merchant or e-commerce or shop\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S352	8	S350 and S339	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S353	9	S350 and S340	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39

## EAST Search History

S35 4	14	S350 and S341	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S35 5	7	S350 and S342	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S35 6	8	S350 and S343	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S35 7	9	S350 and S344	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S35 8	7	S350 and S345	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S35 9	30	S350 and S346	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S36 0	20	S350 and S347	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/20 09:39
S36 1	10	(network and service and web and level and access and (code or key or PIN or password) and identification and user and host). CLM.	US-PGPUB; USPAT	OR	ON	2007/06/20 10:05
S36 2	0	("10215900").PN.	USPAT; USOCR	OR	OFF	2007/06/20 10:05
S36 3	1	("6810123").PN.	USPAT; USOCR	OR	OFF	2007/06/20 10:06
S36 4	1	("6980655").PN.	USPAT; USOCR	OR	OFF	2007/06/20 10:07
S36 5	1	("6690796").PN.	USPAT; USOCR	OR	OFF	2007/06/20 10:08

## EAST Search History

S36 6	1	("6154544").PN.	USPAT; USOCR	OR	OFF	2007/06/20 10:56
S36 7	1	("6397335").PN.	USPAT; USOCR	OR	OFF	2007/06/20 12:22

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access level and e-commerce

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1 [E-commerce-models, structure, mechanisms, globalization, and strategy: A growth theory perspective on the international diffusion of e-commerce](#)

Shuchun Ho, Robert J. Kauffman, Ting-Peng Liang

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

Publisher: ACM Press

Full text available: pdf(409.44 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This research explores the reasons why electronic commerce practices have diffused around the world at the national level of analysis, due to forces that are both internal and external to the countries in which diffusion is observed to occur. We propose two related growth theories that contribute contrasting viewpoints about the origins of the drivers of diffusion: endogenous growth theory and exogenous growth theory. We use the former theory to argue that the primary drivers of diffusion stem f ...

**Keywords:** e-commerce, economic theory of growth, technology diffusion

2 [Business-to-business interactions: issues and enabling technologies](#)

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 12 Issue 1

Publisher: Springer-Verlag New York, Inc.

Full text available: pdf(558.34 KB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Business-to-Business (B2B) technologies pre-date the Web. They have existed for at least as long as the Internet. B2B applications were among the first to take advantage of advances in computer networking. The Electronic Data Interchange (EDI) business standard is an illustration of such an early adoption of the advances in computer networking. The ubiquity and the affordability of the Web has made it possible for the masses of businesses to automate their B2B interactions. However, several issu ...

**Keywords:** B2B Interactions, Components, E-commerce, EDI, Web services, Workflows, XML

3 [B2C e-commerce development in Africa: case study of Botswana](#)

Faith-Michael E. Uzoka, Geoffrey G. Seleka

June 2006 **Proceedings of the 7th ACM conference on Electronic commerce EC '06**

Publisher: ACM Press

Full text available: pdf(306.89 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The global wave of ICT development has become a strong driving force in almost every aspect of human endeavor. Electronic commerce (e-commerce) is fast gaining a prominent place in the global marketing matrix. The volume of transactions that are carried out over the internet globally is extremely huge. It is estimated that in the next decade, e-commerce activities would be a major source of foreign exchange, and a key

indicator of national development. Developing countries, especially in Africa, ...

**Keywords:** Africa, B2B, B2C, C2B, C2C, SADC, e-commerce, e-readiness

4 Privacy protection, control of information, and privacy-enhancing technologies



Herman T. Tavani, James H. Moor

March 2001 **ACM SIGCAS Computers and Society**, Volume 31 Issue 1

**Publisher:** ACM Press

Full text available: pdf(846.81\_KB)

Additional Information: [full citation](#), [references](#), [citations](#)

5 Flexible enterprise access control with object-oriented view specification

Mark Evered

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21 ACSW Frontiers '03**

**Publisher:** Australian Computer Society, Inc.

Full text available: pdf(99.87\_KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The per-method access control lists of standard middleware technologies allow only simple forms of access control to be expressed and enforced. Given the increasing use of web-based applications involving sensitive data, the increased threat and the stringent requirements of privacy laws, a more flexible and secure approach is needed. In this paper we present a three-step approach to access control involving object-oriented encapsulation, middleware based on a new, more secure access control mechanism ...

**Keywords:** access control, object-oriented systems, web-based systems

6 Access management for distributed systems: Adaptive trust negotiation and access control



Tatyana Ryutov, Li Zhou, Clifford Neuman, Travis Leithhead, Kent E. Seamons

June 2005 **Proceedings of the tenth ACM symposium on Access control models and technologies SACMAT '05**

**Publisher:** ACM Press

Full text available: pdf(324.12\_KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Electronic transactions regularly occur between business partners in separate security domains. Trust negotiation is an approach that provides an open authentication and access-control environment for such transactions, but it is vulnerable to malicious attacks leading to denial of service or leakage of sensitive information. This paper introduces an Adaptive Trust Negotiation and Access Control (ATNAC) framework to solve these problems. The framework combines two existing systems, TrustBuilder ...

**Keywords:** access control, adaptive systems, denial of service, trust negotiation

7 Innovative technologies of e-commerce: A novel solution to mass information storage



Jun Liu

August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**

**Publisher:** ACM Press

Full text available: pdf(295.94\_KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

With the explosive growing of network information, there is a critical demand for mass information storage in e-Commerce. Traditional storage systems are created based on local area network and difficult to satisfy the requirements of newly emerged e-Commerce applications. The concept of IP-SWAN (Storage Wide Area Network) is proposed, which is a kind of storage network that can implement data access at block level globally through IP storage protocols. The architecture of IP-SWAN system based on ...



**Keywords:** IP storage, RAID, mass information storage, storage wide area network

8 Innovative technologies of e-commerce: Application of e-commerce security management strategy in banking



-  Guoling Lao, Liping Wang  
 August 2005 **Proceedings of the 7th international conference on Electronic commerce ICEC '05**  
 Publisher: ACM Press  
 Full text available:  [pdf\(331.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today, e-commerce has achieved wide applications with its carrier network and information technology's rapid developments. But various security problems set up a lot of barriers for its further progress and the security becomes a bottleneck. Unless these problems are entirely solved, e-commerce cannot go along smoothly. According to these facts, the article tries to find a systematic security solution for the banks engaged in e-commerce. That is: security management strategy. The security strateg ...

**Keywords:** bank, e-commerce, risk, security management strategy



- 9 A method for evaluating the impact of software configuration parameters on e-commerce sites   
 Monchai Sopitkamol, Daniel A. Menascé  
 July 2005 **Proceedings of the 5th international workshop on Software and performance WOSP '05**  
 Publisher: ACM Press  
 Full text available:  [pdf\(276.37 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

E-commerce systems are composed of many components with several configurable software parameters which, if properly configured, can optimize system performance. The cost and burden of implementing upgrades can be deferred by judicious tuning of these parameters. Tuning is a time consuming effort and energy has to be spent on the most relevant parameters. This paper provides a method to evaluate the statistical significance of configurable parameters in e-commerce systems, the interaction effects ...

- 10 Computer security (SEC): An anomaly-driven reverse proxy for web applications   
 Fredrik Valeur, Giovanni Vigna, Christopher Kruegel, Engin Kirda  
 April 2006 **Proceedings of the 2006 ACM symposium on Applied computing SAC '06**  
 Publisher: ACM Press  
 Full text available:  [pdf\(232.87 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Careless development of web-based applications results in vulnerable code being deployed and made available to the whole Internet, creating easily-exploitable entry points for the compromise of entire networks. To ameliorate this situation, we propose an approach that composes a web-based anomaly detection system with a reverse HTTP proxy. The approach is based on the assumption that a web site's content can be split into security sensitive and non-sensitive parts, which are distributed to differ ...

**Keywords:** anomaly detection, data distribution, web proxy

- 11 Server performance and scalability: A method for transparent admission control and request scheduling in e-commerce web sites   
 Sameh Elnikety, Erich Nahum, John Tracey, Willy Zwaenepoel  
 May 2004 **Proceedings of the 13th international conference on World Wide Web WWW '04**  
 Publisher: ACM Press  
 Full text available:  [pdf\(179.28 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a method for admission control and request scheduling for multiply-tiered e-commerce Web sites, achieving both stable behavior during overload and improved response times. Our method externally observes execution costs of requests online, distinguishing different request types, and performs overload protection and preferential scheduling using relatively simple measurements and a straight forward control mechanism. Unlike previous proposals, which require extensive changes to ...

**Keywords:** admission control, dynamic web content, load control, request scheduling, web servers

- 12 Accepted Posters: End-user debugging for e-commerce 





Henry Lieberman, Earl Wagner

January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces IUI '03**

Publisher: ACM Press

Full text available: [pdf\(116.81 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

One of the biggest unaddressed challenges for the digital economy is what to do when electronic transactions go wrong. Consumers are frustrated by interminable phone menus, and long delays to problem resolution. Businesses are frustrated by the high cost of providing quality customer service. We believe that many simple problems, such as mistyped numbers or lost orders, could be easily diagnosed if users were supplied with end-user debugging tools, analogous to tools for software debugging. These ...

**Keywords:** debugging e-commerce, end-user debugging

### 13 A trust model for e-commerce in South Africa

Lynette Barnard, Janet Wesson

October 2004 **Proceedings of the 2004 annual research conference of the South African institute of computer scientists and information technologists on IT research in developing countries SAICSIT '04**

Publisher: South African Institute for Computer Scientists and Information Technologists

Full text available: [pdf\(82.14 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, the relative importance of trust and usability of e-commerce in South Africa is discussed. In order to investigate these issues, a heuristic evaluation and an empirical evaluation were conducted on a number of South African e-commerce sites. A comprehensive set of e-commerce design guidelines was compiled, which was used to conduct a heuristic evaluation of the selected e-commerce sites. The results of the heuristic evaluation indicated that a number of usability problems exist ...

**Keywords:** South Africa, e-commerce, e-commerce design guidelines, empirical evaluation, heuristic evaluation, trust, trust model, usability

### 14 Software product line engineering: Multi-level customization in application engineering

Krzysztof Czarnecki, Michal Antkiewicz, Chang Hwan Peter Kim

December 2006 **Communications of the ACM**, Volume 49 Issue 12

Publisher: ACM Press

Full text available: [pdf\(631.44 KB\)](#) [html\(23.03 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Developing mechanisms for mapping features to analysis models.

### 15 E-commerce: Fine grain performance evaluation of e-commerce sites

Mauro Andreolini, Michele Colajanni, Riccardo Lancellotti, Francesca Mazzoni

December 2004 **ACM SIGMETRICS Performance Evaluation Review**, Volume 32 Issue 3

Publisher: ACM Press

Full text available: [pdf\(1.02 MB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#)

E-commerce sites are still a reference for the Web technology in terms of complexity and performance requirements, including availability and scalability. In this paper we show that a coarse grain analysis, that is used in most performance studies, may lead to incomplete or false deductions about the behavior of the hardware and software components supporting e-commerce sites. Through a fine grain performance evaluation of a medium size e-commerce site, we find some interesting results that demo ...

### 16 The internet vs e-commerce servers: when will server performance matter?

D. Krishnamurthy, J. Rolia

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research CASCON '98**

Publisher: IBM Press

Full text available: [pdf\(113.14 KB\)](#)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The cycle time of an Internet based online shopper includes time at an electronic commerce (e-commerce) server to gather information and purchase products, download time to transfer data over the Internet, and think time for interpreting the results of individual requests. Currently most home based shoppers are limited to 56.6K modems

and have cycle times largely determined by download time. Mega-bit (Mb) modems will soon be commonplace and will cause a significant reduction in the download time ...

17 Performance and overhead of semantic cache management



Björn Þór Jónsson, María Arinbjarnar, Bjarnsteinn Þórsson, Michael J. Franklin, Divesh Srivastava

August 2006 **ACM Transactions on Internet Technology (TOIT)**, Volume 6 Issue 3

Publisher: ACM Press

Full text available: pdf(515.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The emergence of query-based online data services and e-commerce applications has prompted much recent research on data caching. This article studies *semantic caching*, a caching architecture for such applications, that caches the results of selection queries. The primary contribution of this article is to revisit the performance and overhead of semantic caching using a modern database server and modern hardware. Initially, the performance study focuses on simple workloads and demonstrates ...

**Keywords:** Semantic caching, data caching, e-commerce applications, online data services, wireless networks

18 E-government services and policy track: Enterprise access policy enforcement for applications through hybrid models and XSLT technologies



Ramaswamy Chandramouli

March 2004 **Proceedings of the 6th international conference on Electronic commerce ICEC '04**

Publisher: ACM Press

Full text available: pdf(167.98 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

E-government systems like web portals provide various services to citizens. Information handled in these e-government systems are subject to multiple laws encompassing privacy, non-disclosure (confidentiality) and integrity policies. Hence the protection means for regulating access to this information should be policy driven. Policy-based access control is one such protection approach and has been incorporated into Enterprise Security Management (ESM) solutions. However, the existing ESM solutio ...

**Keywords:** XML schema, XSLT, domain type enforcement (DTE), policy rules, provisioning, role-based access control (RBAC)

19 Industrial sessions: middle-tier caching: Middle-tier database caching for e-business



Qiong Luo, Silessh Krishnamurthy, C. Mohan, Hamid Pirahesh, Honguk Woo, Bruce G. Lindsay, Jeffrey F. Naughton

June 2002 **Proceedings of the 2002 ACM SIGMOD international conference on Management of data SIGMOD '02**

Publisher: ACM Press

Full text available: pdf(1.20 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

While scaling up to the enormous and growing Internet population with unpredictable usage patterns, E-commerce applications face severe challenges in cost and manageability, especially for database servers that are deployed as those applications' backends in a multi-tier configuration. Middle-tier database caching is one solution to this problem. In this paper, we present a simple extension to the existing federated features in DB2 UDB, which enables a regular DB2 instance to become a DBCache wi ...

20 Business-to-business e-commerce track: Electronic commerce and the strategic management of deep-sea container shipping companies: an exploratory survey analysis



Eladio Peñaloza, Mary Brooks, Sunny Marche

August 2006 **Proceedings of the 8th international conference on Electronic commerce: The new e-commerce: innovations for conquering current barriers, obstacles and limitations to conducting successful business on the internet ICEC '06**

Publisher: ACM Press

Full text available: pdf(175.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Despite the increased adoption of electronic commerce (EC) among container shipping

companies, the role of EC practice on their strategic management is poorly understood. This study takes an interdisciplinary approach to examine the uses, motivations, barriers and strategic relevance of EC in the container shipping industry in 1992 and 2002. To test five hypotheses, a 41-question survey was sent to 297 shipping companies, yielding an 11.1% response rate. The research found that the role of EC be ...

**Keywords:** container shipping, electronic commerce, shipping companies, shipping industry, strategic management

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